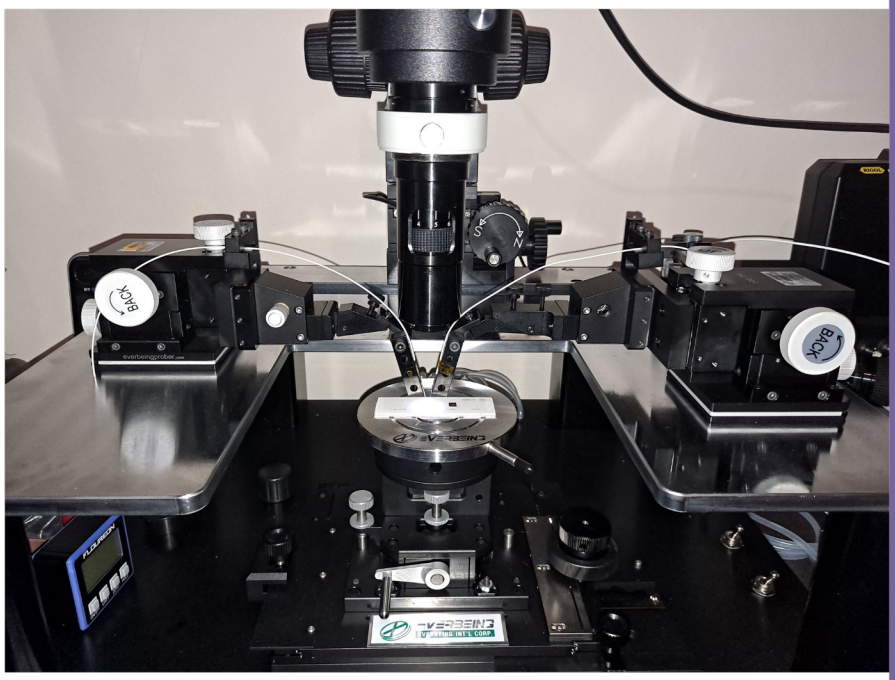
EVERBEING INT'L CORP.

Your Partner in Probing Solutions



C-4/6 Photonic Probe Station

Combining DC, and fiber optics to your probe station to enhance your experiment.

The C series is our entry level probe station product line. It's features fundamental mechanisms for your basic probing needs. This providing repeatable, accurate measurements in both DC, Fiber, and RF applications. :

Features

- Low profile coaxial-driven style stage for quick and fine movement
- Chuck Up/Down Adjustment
- Back-lash free movement
- Mounting for 12 micropositioners
- Passive Vibration Isolation

Applications

- RF, Single Broadband Probing
- Basic IV/CV
- Photonics

Accessories

- Hot Chuck with Temperature Controller
- Vibration Free Table
- Shielding Box

No. 1 Jinshan 2nd St.
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C-4/6 PHOTONIC PROBE STATION

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Station Specifications

Station Footprint	516 mm W x 410 mm D
Station Height	178 mm (to Platen)/500 mm (to Microscope)
Station Weight	70kg
Platen Material	Hard Chrome Plated Steel
Platen Dimension	205 mm Inner, 516 mm Outer
Platen Capacity	12 DC or 4 RF 4 DC
Positioner Mount	Magnetic ON/OFF Switch
No. of Vacuum Switches	3
Chuck Material	Stainless Steel
Chuck Stage Type	Coaxial (Large Knob Optional)
Chuck Travel Range	4” x 4” or 6” x 6”
Chuck Quick Resolution	25 mm/rev
Chuck Fine Resolution	1 µm
Chuck Theta Travel	360° (Coarse)
Chuck Z-Motion	4 mm Range
Chuck Z Fine Resolution	1 µm
Coaxial Chuck Movement	Bevelled Gear and Rack 0.8mm Pitch
Large Knob Chuck Movement	High Precision Linear Stage
Chuck Size	4” (100 mm) or 6” (150 mm)
Chuck Planarity	3 µm
Chuck Rigidity	15 µm / 10 N @ edge
Chuck Vacuum Grooves	Center, 1”, 3” ,5” (Individually Controlled)
Chuck Bias Capacity	Up to 500 V
Chuck Isolation	1 GΩ
DUT Size Range	2 mm - 150 mm
Microscope Zoom Range	1.4x - 9x
Microscope Eye Piece	20x
Microscope Magnification Range	28x-180x

*Other microscropes are available in our supply. For more questions, please contact us directly

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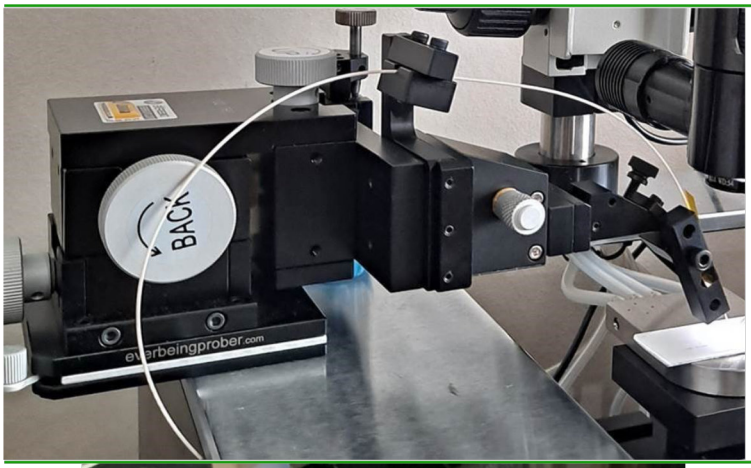
C-4/6 PHOTONIC PROBE STATION

Micropositioner Options

All micropositioners offer X-Y-Z linear-motion travel with no backlash with mounting options including magnet, vacuum or magnet switch

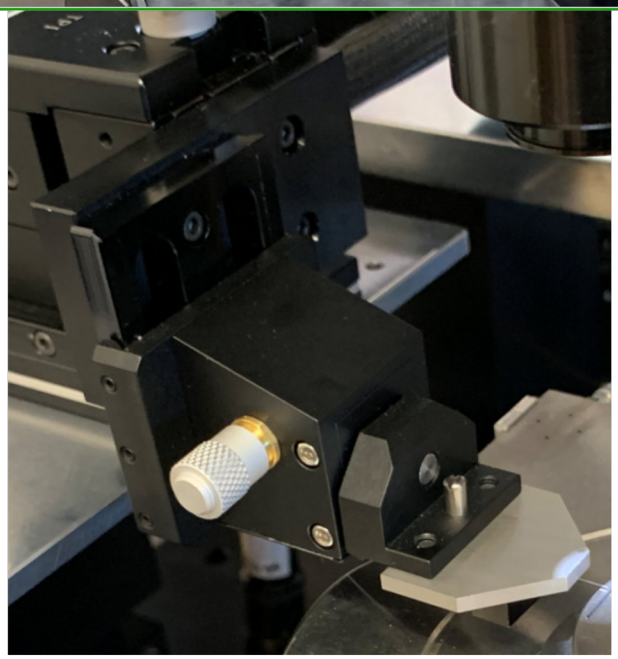
EB-005E

Resolution: 0.6 µm
Screw Resolution: 125 µm
Travel Range: Linear 12 mm X-Y-Z
Dimensions: 90 mm W x 130 mm D x 90 mm H
Base Type: Magnet ON/OFF
Weight: 1000 g



EB-005E + FIBER-T

Accessory for EB-005 which allows roll and pitch adjustment of fiber optic
Roll Specification: ± 12° range, 0.01° resolution
Pitch Specification: +35° starting at -45° from horizontal, 3 um resolution.
Fiber Groove Size: 1 mm width
Fiber Securing Method: Kapton Tape
Fiber Groove Block can be freely secured in any direction



MP-FH003

Accessory for EB-005 which allows roll adjustment only. Optimal for edge emitting devices
Roll Specification: ± 12° range, 0.01° resolution
Fiber Groove Size: 1 mm width
Fiber Securing Method: Kapton Tape
Fiber Groove Block can be freely secured in any direction

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Micropositioner Options

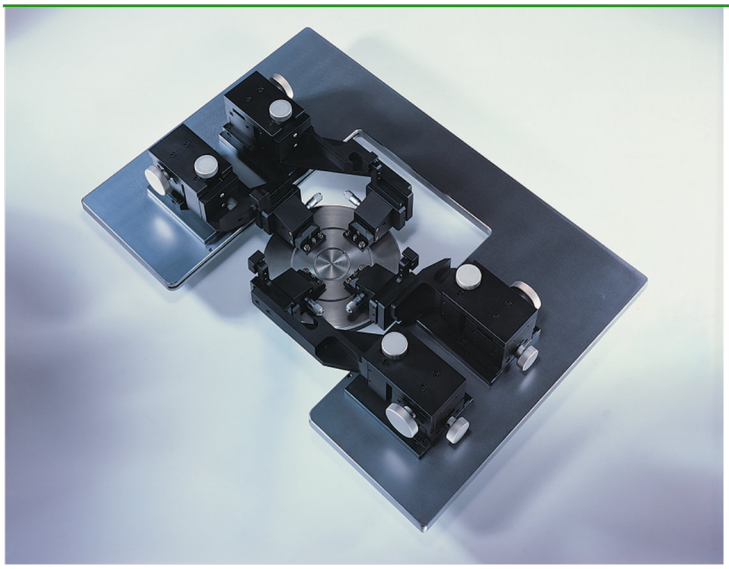
All micropositioners offer X-Y-Z linear-motion travel with no backlash with mounting options including magnet, vacuum or magnet switch

EB-050E + TH-TU-T

Resolution: 0.8 µm
Screw Resolution: 212 µm
Travel Range: Linear 12 mm X-Y-Z
Dimensions: 52 mm W x 96 mm D x 76 mm H
Base Type: Magnet ON/OFF
Weight: 550 g
Tip Holder: Triaxial Tubular with Soft Landing

EB-005E

Resolution: 0.6 µm
Screw Resolution: 125 µm
Travel Range: Linear 12 mm X-Y-Z
Dimensions: 90 mm W x 130 mm D x 90 mm H
Base Type: Magnet ON/OFF
Weight: 1000 g



EB-005-RFT

Resolution: 0.01°
Travel Range: ±12°

RFT Module is already included with FIBER-T and FH003 modules for Fiber, so the system is RF ready.

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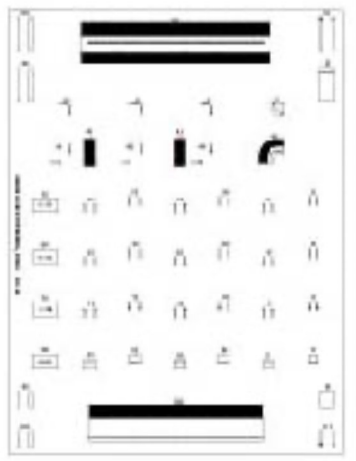
C-4/6 PHOTONIC PROBE STATION

RF Probes

Everbeing partners with GGB Industries to sell the Picoprobe line of products. Picoprobes are proven to be a irreplaceable for performing on-chip high frequency measurement

67A-GSG-100-DP RF Probe (sample model)

Frequency Max: 67 GHz
Probe Configuration: GSG Footprint
Pitch: 100 µm
Insertion Loss: Less than 1.1 db
Return Loss: Greater than 14 db
Repeatability: -80 db
Probe Material: BeCu
Connector: 1.85 mm Female (V Connector)



CS-5 Calibration Substrate

Footprint: GSG
Pitch Range: 75-250 µm
Pad Size: 50 µm
Calibration Method: Short-Open-Load-Through, Line-Reflect-Line, Line-Reflect-Match

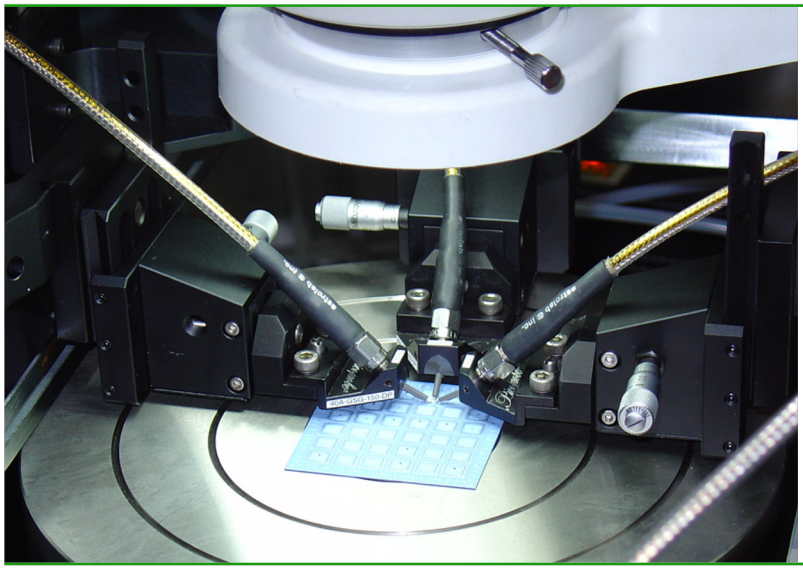


Image showing integration of Micropositioner with RF probes

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C-4/6 PHOTONIC PROBE STATION

Accessory and Options (Cont'd)

PS-SB-4/6 Shielding Box

The PS-SB-4/6 Shielding Box blocks external sources of electromagnetic interference and radiation. Such types of radiation has a strong impact on low noise current measurements and can mask your intended results. For measuring in the pA or fA range of currents, this product is recommended.

- 650 mm W x 580 mm D x 800 mH
- 16 Feedthrough Holes (* left and right)
- Rear Cable through Slot

VFT-3636 Vibration Free Table

Dimension: 36" W x 36" D x 36" H
Vertical Natural Frequency: 1.5 Hz
Isolation Efficiency: @ 5 Hz 85%
Horizontal Natural Frequency: 1.2 Hz
Isolation Efficiency: @ 5 Hz 91%
Air Requirement: 80 psi
Net Load: 200 kg
Material: Stainless Steel TableTop

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C-4/6 PHOTONIC PROBE STATION

Accessory and Options (Cont'd)

HT-200-4 Hot Chuck

The HT-200-4 is a 4 inch hot chuck with temperature control up to 200˚C. The integrated PID controller allows 0.1˚C precision control. Cooling is controlled via a manual water tank.

- 4" Chuck
- RT ~ 200˚C
- DC Powered (220V)
- PID Controller Integrated
- 0.1˚C Temperature Resolution